1-62 THE SODA MACHINE

The soda machine offers 3 types of soda. Pepsi, Diet Pepsi, and Mountain Dew. Because Pepsi is so popular, there are 2 buttons for that soda.

1. Describe the input and output of this soda machine.
2. At lunch, Mrs. Davis pressed the Diet Pepsi button and received a Diet Pepsi. After school, she went back to the soda machine and pressed Diet Pepsi, but this time she recevied a Mountain Dew. Is the machine functioning properly? Why or why not? Explain your answer.
3. When Mr. Davis pushed the top button of Pepsi, he recevied a Pepsi. Mr. Philpot wanted to be different, and he pressed the bottom button for Pepsi. He also received a can of Pepsi. Is the soda machine functioning consistently? Why or why not? Explain your answer.
4. When Mrs. Vogl pressed the button for Mountain Dew, she received a can of Diet Pepsi. Later, Mr. Green also pressed the button for Mountain Dew and he too received a can of Diet Pepsi. Next, Mr. Watson pressed the Mountain Dew button and received a Deit Pepsi. Is the machine functioning consistently? Explain why or why not.

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| FUNCTION | RELATION |
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Learning Log

1. Describe what it means for a relationship to be a function.
2. Think of a type of machine that you use on a regular basis and describe how it also operates as a function.



































